BRUHAT BANGALORE MAHANAGARA PALIKE

Detailed Estimate for :- Repairs to borewell, chain link fencing, seating arrangement children play equipment and other works to Ganesha Layout park M.s. palys in Ward No.11

Estimated cost Rs.19.80 Lakhs

Sl. No	Description of work	No	Dimensions L	B	D	qty	Rate	Unit	Amount
1	KSRB 2-2.1 : Earthwork in surface excavation in oridinary soil for leveling and lowering he ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavted surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1 (a) /2.3.1 (P-5, I-2.1)								
	CP area	1	15.00	15.00	0.30	67.50			
	SWD side	1	35.00	40.00	0.25	350.00			
						417.50	146.88	Cum	61,322.00
	Basic Rate	136.00							
	Area Weightage @ 8%	10.88							
	Total	146.88							
2	earth work excavation for foundation of building, water supply, sanitary lines and electrical conditions either in pits or in trenches 1.5m and above in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the escavated soil clean from edges of excavation with lead upto 50m after breaking of complete as per specifications (KSB 2.1) (b) 2.3.5, P-5, 1-2.4)								
	Kerb stone CP area	2	15.00	0.30	0.30	2.70			
		2	15.00	0.30	0.30	2.70			
	Platform benches	15	2.10	1.20	0.20	7.56			
						12.96	264.60	Cum	3,429
	Basic rate	245.00							
	Area Weightage @ 8%	19.60							
	Total	264.60							
3	Lead for Disposal of Debris/earth shall be payable at garage rates by Mechanical means including loading and unloading from 14Kms to 15Kms (P.No.124.I.No.Conveying)								
	Qty item no. 1 & 2					430.46			
						430.46	109.30	Cum	47,048

	Loading and unloading I.No.17.1	62.20							
	for Haulage(surface road Rs. 2.0 T/Km)								
	(density of debris 1.30 t/cum)								
	for 15kms =15x2x1.30	39.00							
		101.20							
	Area Weightage @ 8%	8.10							
	Total	109.30							
4	Providing and laying in positionp lain cement concrete of Mix M 7.5 with OPC cement @ 180 kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour HOM of machinery curing complete as per specification, specification No. KBS 4, 1, 4.2 (PageNo.12, Item No.4.3)								
	Platform benches	15	2.10	1.20	0.15	5.67			
					Total	**5.67**	4847.04	cum	27483.00
	Basic Rate	4488.00							
	Area Weightage @8%	359.04							
	Total	4847.04							
5	Providing and laying in positionp lain cement concrete of Mix M 15 with cement @ 240 kgs, with 20 mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour HOM of machinery curing complete as per specification, specification No. KBS 4, 1, 4.2 (PageNo.12, Item No.4.6)								
	Platform benches	15	2.10	1.20	0.15	5.67			
					Total	**5.67**	5327.64	cmtr	30208.00
	Basic Rate	4933.00							
	Area Weightage @ 8%	394.64							
	Total	5327.64							
6	Providing and fixing precast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete -do- size 450 x150 x 500mm P.25 I.No.5.29.1								
	Kerb stone CP area	2	15.00			30.00			
		2	15.00			30.00			

						60.00			
	1kerb=0.45 mt					**134**	357.48	Nos	47902
	Basic Rate	331.00							
	Area weightage @ 8%	26.48							
	Total	357.48							
7	KSRB 15-14: Providing and constructing precast concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S. : 2185/1965 in superstructure including cost of materials, labour charges, scaffolding curing complete as per specifications P.25 I.No.5.27								
	Flatform to benches	15	4.50		0.40	27.00			
						27.00	993.60	Sqm	26827
	Basic Rate	920.00							
	Area weightage @ 8%	73.60							
	Total	993.60							
8	KSRB 15-3-13: Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners whever required smooth rendering, : Providing and removing scaffoliding, including cost of materials, labour, curing complete as per specifications. (P-109, I-15.9								
	Flatform to benches	15	4.50		0.30	20.25			
						20.25	174.96	Sqm	3543
	Basic Rate	162.00							
	Area weightage @ 8%	12.96							
	Total	174.96							
9	Providing and fixing of 25mm thick cement base precast, pre-polished cement concrete tiles containing fibrilated polypraylene fibre as admixture laid on 12 cms thick cement sand bed of 1:3 mix joined with Oxide cement slurry mixed pigment to match the shade of tiles including cost of all material and labour & material having compressive strength of not less than within 350/kg/cm2 flrxuaral strength of material shall not be less than 30/kg/cm2 and water obsorption of less than 10%								
	Platform benches	15	2.10	1.20		37.80			
					Total	**37.80**	1250.00	sqmt	47250.00

10	Providing and applying ready mix priming coat over concrete/masonry /asbestos cement sheet plastered surfaces including preparing the surface after through brooming of oil,grease,dirt and other foreign matter,and sand papering including cost of materials, labhour, complete as per specifications (P.No.118, I.No.15.80)								
	Kerb Stone	134	0.45		0.35	21.11			
					Total	**20.95**	25.92	Sqm	544.00
	Basic Rate	24.00							
	Area Weightage @ 8%	1.92							
	Total	25.92							
11	Providing and applying painting with ready mix paint in two coats(excluding priming coat) over new concrete/asbestos cement sheet/plastered surface brush to give an even shade after preparing the surface after through brooming of oil, dirt, and other foreign matter and sand papering including cost of materials, labhour, complete as per specifications.(P.No.118 ,I.No.15.83)								
	for kerb stones	134	0.45		0.35	21.11			
					Total	**21.11**	48.60	Sqm	1026.00
	Basic Rate	45.00							
	Area Weightage @ 8%	3.60							
	Total	48.60							
12	**Play Platform :** Tthis multi play system comprises of two platforms with serrated moulded plastic canopies. The platforms are 3 ft x 3 ft in size with 10mm perforated MS blackended base main pillars are in 65mm MS 'a' Class pipe the platforms are extended into a twin single side, a chain ladder, a vertical ladder with 25mm dia MS pipes, a conventional rectangular step ladder t0 x 25mm, 6ft x 6ft, long trapeze ring hanger made out of 20mm dia MS pipe, 3 ft long loop hanger made of 20 dia MS pipes, a tic-tac panel colour, planked two segment bridge of right panel, Effective heights of platforms are 4 feet above the ground level moulded plastic slides are non-corrosive, fade free, tough grade, durable hard and should prevent UV light. All MS 'A' Clas spipes are of ISI grade.								
						1.00	670000	Set	670000.00

13	Providing Children Play Standrd Sea Saw Seater Equipment : This euqipment is made up of main beam 50mm MS pipe 'A' class of length .98 mtr. With two handles welded at the ends as a hand are made of 20mm 'A' class pipe. The main beam is pivoted to the bottom supports of 40mm MS pipes by bush bearing clamped by pivot joints which swivel over 28mm dia steel shaft, which gets installed in the ground by means of cocrete, 2 Nos. seats are made of 250 mm x 200 mm x 18 SWG MS sheets with T hand rest at the front. Air pipes are of ISI grade. All the pipes are painted with two coats of super set paint over a coat of protective Zinc chromate yellow oxide including fixing the play equipments in CC 1:2;4, curing etc., complete with all lead, lift, loading, unloading and any other incidental charges and as per the drawing and specification and direction of the Engineer in charge of the work								
		2			Total	2.00	28000.00	No.	56,000.00
14	Providing children play Play Merry-Go-Round equipment : Made of MS 'A'; Class pipes. Main pillars in 100 mm dia fitted with shaft and two bearing and othr cross members are in 25 & 20n mm M.S. A Cass pipe, the bottom ring is made out of 25mm of ring size is 1.20 mtrs Dia, fitted with four seats are in mental sats of 250x200x18 SGE handles are made out of 20mm NB pipes and other supports are in 25mm MS 'A' Class pipes. All the pipes are painted with two coats of super set paint over a coat of protective Zinc chromate yellow including fixing the play equipments in CC 1;2;4 curing etc., complete with all lead, lift, loading, unloading, and any other incidental charges and as per the drawing and specification and direction of the Engineer in charge of hte work								
		1				1.00			
					Total	1.00	28000.00	No.	28000.00
15	2-Seater Swing : This Swing consists of 2 Nos, seat sof solid fibbed FP of size 480 mm x 180 mm x 3.5 mm supported by MS chains (*heavy) length 1.8 mtrs, each seat is suspended by 2 lines of chains. The chains are supported by circular housing with bearing from which the chain in suspended. The main beam is of 50mm MS 'a' class pipe. Size of MS chain 30mm x 20mm x 5mm thick, The 2 Nos inverted 'V' beams are of 50mm 'A' Class pipes secured at the top the main beam by means of CI castings. (Heavy duty for elders) All pipes are of ISI grade. All the pipes are painted with two coats of super set paint over a coat of protective Zinc chromate yellow oxide.								
		2				2.00	46000	set	92000.00
16	Providing and filling sand in foundation upto plinth to required depth for sub soil treatment including watering ramming with all lead and lift complete as specification P. No. 6 I. No. 2.13								
		1	20.00	15.00	0.25	75.00			

					Total	75.00	1966.68	Cum	147,501
	Basic Rate	1821.00							
	Area Weightage @ 8%	145.68							
	Total	1966.68							
17	Providing and fixing Granite Benches including cost of materials labour as per specification (Data Rate Approved)								
	Data Rate	10550							
	for Platform	15.00				15.00	13.00		
	for shelter	6.00				6.00	19.00		200450.00
						21.00	10550.00	Nos	221,550.00
18	Providing and fixing M.S. block pipe of 38 mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe between the two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. blok pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer in charge of work etc., complete including two coats of approved quality paint over one coat of shop paint (Item No.37.4 Page No.252)								
	missing & damaged	15	2.30			34.50			
		9	2.30			20.70			
		9	2.30			20.70			
		10	2.30			23.00			
						98.90	322.92	mtrs	31937.00
	Basic Rate	299.00							
	Area weightage @ 8%	23.92							
	Total	322.92							
19	Providing chain link fencing 50mm sie of 8 guage propely stretched between rectangular poles and fixed with suitable bolts and nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, colour, lead and lifta and as per the directions of the Egineer -in-charge two coats of approved quality paint over one coat of shop paint (Page No.252, I. No. 37.3)								
	missing & damaged	5	2.30		1.80	20.70			
		2	2.30		1.80	8.28			
		3	2.30		1.80	12.42			
		5	2.30		1.80	20.70			
						62.10	682.56	sqm	42387.00
	Basic Rate	632.00							
	Area weightage @ 8%	50.56							
	Total	682.56							

20	Providing and applying enamel metal paintig two coats 9excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labhour, complete as per specifications (P.No.117 I.No.15.74								
	chain link fenching - N side	1	73.5		1.80	132.30			
	East side	1	124		1.80	223.20			
	South side	1	45		1.80	81.00			
	South side	1	28		1.80	50.40			
	Western side	1	32		1.80	57.60			
	Western side	1	92		1.80	165.60			
						710.10			
	Dedct for new chain link					62.10			
					Total	**648.00**	82.08	Sqm	53188.00
	Basic Rate	76.00							
	Area Weightage @ 8%	6.08							
	Total	82.08							
21	Providing and fixing in galvazed/mild steel tubed (Heavey class as per IS 1239 part-1990) 50 mm dia nominal bore with all fittings including cost of all material labour charges. HOM of equipment and testing complete as per specification PWD SR Bangalore Circle 2010-11, P-79, I-13.15					40.00	402.75		16110.00
							Per Mtr		
22	Supply Heavy Duty, galvanized / mild steel color suitable for 32 mm dia nominal bore galvanized / mild steel tube. (BWSSB approved rates)					10.00	80.00		800.00
							Per No.		
23	Erection of pumpset including aligning and balancing with all necessary erection material and labour including supply and erection of two pair of supporting clamps borewell cap, cable and water tight gland cable protectiors, bolts, nuts, etc., involved in the job. (PHE, SR rate)					1.00	1710.00		1710.00
							Per No.		
24	Supplying and fully automatic star-delta unit push with suitable wires, 3 contrsctors, one adjustable thermal timer mounted on a common base plate head in steel enclosure for use on 400/440 volts 3 phase and wired after to the existing wooden board for motor, PWD Elec SR P-XIV, I-8a(2)					1.00	5330.00		5330.00
							Per No.		
25	Supplying and fixing using necessary wires over an existing panel board a single phase preventor suitable for motor upto 20HP capacity. PWD Elec. SR. P-XIV, I-9					1.00	735.00		735.00

								Per No.		
26	Supplying shunt capacitors conforming to IS 2834,3 phase 400/440 volts grade capacitor in KVAR rating, Nos, PWD Elec SR P-24-I-15©					1.00	504.00		504.00
								Per No.		
27	Fabricating supplying and mounting 1200x900x350mm MS box made out 18 SWG suitable for floor /wall mounting, fully weather proof with double slanted top as per drawing with providion for better heat dissipation provided with hinged front cover with clear opening of 100x100mm, protected by glass cover clamped to the door on EB meter sode to facilitate meter reading, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box shoubl be finished with approved colour enameled metal paint etc., complete PWD Elec SR P-42, I-38C					1.00	10136.00		10136.00
								Per No.		
28	Supplying and fixing miniature circuit breakers/Isolatorss on existing MCB distribution boards using necessary fixing materials and wiring complete as required PWD Elec SR P-37, I-FC					1.00	975.00		975.00
								Per No.		
29	Supplying and fixing regular MCB distribution boards on wall/wood board/flush imounting using required clamps, bolts, nuts etc with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with power coated painting etc complete PWD Elec SR P-37, I--13f(e)					1.00	560.00		560.00
30	Supllying and LTUG cable having aluminium conductor PVC insulated sheathed, galvanized, stell wire/ steel tape amounted cable with PVC outsheathing 1.1KV class (conforming to IS 1554) PWD Elec SR P-68&69,					60.00	150.00		9000.00
								Per Mtr		
31	Providing and fixing stone PARAGOLA 20cm x 20 thick granite pargolas fully polishind on all four sides, machine cut as per the deisign. The vertical pillers are to be fixed in cement concrete 1;2:4 the work includes cost of all materials, labour equipments, machineries, lead & lifts loading and unloading etc., complete and execute the work as per the instructions, directions of the Engineer Engineer								
		2	35.00			70.00			
						70.00	4000.00	rmt	280000.00

32	Providing and fixing dust bins as per designs, drawing specification and direction of Engineer in charge of works	3.00	4800.00	Nos	14,400
				1958305.46	1,979,405.46
				Miscellaneous	594.54
				GRAND TOTAL Rs.	**1980000.00**

1X 19583.05
2111.49
1980000.00

Certificate

1. The work spot has been inspected and the work is found necessary
2. This estimate is prepared as per C.S.R. of 2014-15
3. This provisions were made in this estimate are necessary and adequate
4. This work cormes under B.B.M.P limits

Asst. Engineer
BBMP

Asst. Executive Engineer
BBMP

Executive Engineer ( )Yelahanka
BBMP

Sanction for Rs.....
Administrative Approval
Accorded for Rs 19.80 lakhs
is accorded under head.... P0190
.....
registered as CE No. 85 Dt. 28.11.14 Subject
to Conditions contained in enc cadi memo
No..... Dt.....
AE/JE TA SE (BTP) CE (BTP)

Technical Sanction for Rs. 19.80 L.
Nineteen lakhs Eighty Thousand only
P-0190
Registered as EE (BTP) 49 22.12.14 subject
to conditions contained in CE(BTP) memo
No: 265 Dt. 22-12-14
AE/JE
EE (BTP.Div.)